

## ABSTRACT

A router (105) includes multiple network interfaces (230-245) and a processor (220). Each of the network interfaces (230-245) receives port connection information associated with switches in a network (100). The processor (220) updates information pertaining to locations and paths to switches in the network (100) based on the received port connection information. The processor further updates, based on the received port connection information, entries in a virtual circuit table such that the router provides virtual circuit paths to all switches in the network (100) within a radius of connection from the router (105).